Notice of Allowability	Application No.	Applicant(s)
	10/706,805	BOZAK ET AL.
	Examiner	Art Unit
	ABDULLAH AL KAWSAR	2195
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subje	application. If not included ation will be mailed in due course. THIS
1. This communication is responsive to <u>8/25/2008 and interview conducted on 11/17/2008</u> .		
2. X The allowed claim(s) is/are 1,3,5-7,9,11-17,19-22 are renumbered as claims 1-17.		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 	been received.	
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the 		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948)	5.	
	Paper No./Mail	Date
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>03/11/2004</u>, <u>04/23/2004</u> 	7. 🛛 Examiner's Ame	endment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🔲 Examiner's Stat	ement of Reasons for Allowance
of Biological Material	9.	
	/Meng-Ai An/	
	Supervisory Patent	Examiner, Art Unit 2195



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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Philip J. Hoffmann on 11/17/2008.
- 3. The following claims had been amended:
 - 1. A method comprising:

receiving a request for a computational resource required to begin computing a first task, the request being provided by a first portion of a network and including a requirement corresponding to computation of the first task;

matching the requirement with specifications of computational resources existing in the network;

generating a list of matched computational resources having specifications that match the requirement, the matched computational resources being selected from the existing computational resources;

responding to the request by sending the list of matched computational resources to the first portion of the network, the list including network addresses relating to the matched computational resources;

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receiving a selection from the first portion of the network, the selection including a network address from the list to identify one of the matched computational resources for reservation;

requesting reservation of the identified computational resource, wherein a reservation number is sent to the first portion of the network when the requested reservation is successful;

waiting a predetermined time period for the identified computational resource to begin computing the first task after the requested reservation is successful and the identified computational resource is reserved;

freeing the reserved computational resource for subsequent reservation for computing a second task if the predetermined time period expires and the reserved computational resource has not begun computing the first task; and

sending the request to begin computing the first task to a second matched computational resource included in the list when the requested reservation fails or the predetermined time period expires, wherein the requested reservation fails when the identified computational resource is unavailable to begin computing the first task.

- 2. (Cancelled).
- 3. The method of claim 1 wherein sending the reservation number further comprises reserving the identified computational resource by assigning the reservation number to the identified computational resource.

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4. (Cancelled).

5. The method of claim 1 wherein matching the requirement further comprises

comparing requirements for computing the first task with the specifications.

6. The method of claim 5 wherein generating the list further comprises querying a

plurality of portions of the network.

7. A method comprising:

sending, by a first service, a request for one or more computational resources

required to begin computing a first task, the request including a requirement

corresponding to computation of the first task;

responding, by a second service, to the request by matching the requirement with

specifications of computational resources existing in the network;

generating a list of matched computational resources having specifications that

match the requirement, the matched computational resources being selected from the

existing computational resources;

sending the list of matched computational resources to the first service, the list

including network addresses relating to the matched computational resources;

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receiving a selection from the first service, the selection including a network address from the list to identify one of the matched computational resources for reservation;

requesting reservation of the identified computational resource, wherein a reservation number is sent to the first service when the requested reservation is successful;

waiting a predetermined time period for the identified computational resource to begin computing the first task, after the reservation is successful and the identified computational resource is reserved;

releasing the identified computational resource for subsequent reservation for computing a second task if the predetermined time period is over and the reserved computational resource has not begun computing the first task; and

sending the request to begin computing the first task to a third service corresponding to a second matched computational resource in the list when the requested reservation fails or the predetermined time period is over, wherein the requested reservation fails when the identified computational resource is unavailable to begin computing the first task.

8. (Cancelled).

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9. The method of claim 7 wherein sending the reservation number further comprises reserving the identified computational resource by assigning the reservation number to

the identified computational resource.

10. (Cancelled).

11. The method of claim 7 wherein matching the requirement further comprises

comparing requirements for computing the first task with the specifications that are

described by information accessible to the first service.

12. The method of claim 7 wherein the second service has a stored relation to the first

service.

13. The method of claim 11 wherein the first service executes instructions on a first

computer system and computational resources managed by the first service comprise a

first set of computational resources located on the first computer system.

14. The method of claim 13 wherein the third service has a stored relation with the first

service, the third service executes instructions on a second computer system, and the

computational resources that are described by information accessible to the first service

further comprise a second set of computational resources that are described by

information accessible to the third service.

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15. A network comprising:

a first computer system having a first set of one or more computational resources

and configured to execute instructions of a first service; and

a second computer system configured to execute instructions of a second service,

the first service configured to:

receive, from the second service, a request for a computational resource

required to begin computing a first task, the request including a requirement

corresponding to computation of the first task;

match the requirement with specifications of computational resources in

the first set;

generate a list of matched computational resources having specifications

that match the requirement, the matched computational resources being selected from

the first set;

respond to the request by sending the list of matched computational

resources to the second service, the list including network addresses relating to the

matched computational resources;

receive a selection from the second service, the selection including a

network address from the list to identify one of the matched computational resources for

reservation;

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request reservation of the identified computational resource, wherein a reservation number is sent to the second service when the requested reservation is successful:

wait a predetermined time period for the identified computational resource to begin computing the first task, after the reservation is successful and the identified computational resource is reserved;

free the reserved computational resource for subsequent reservation for computing a second task if the predetermined time period is over and the reserved computational resource has not begun computing the first task; and

send the request to a second matched computational resource included in the list when the requested reservation fails or the predetermined time period is over, wherein the requested reservation fails when the identified computational resource is unavailable to begin computing the first task.

16. The network of claim 15 further comprising:

a third computer system having a second set of one or more computational resources and configured to execute instructions of a third service, the third service having a stored relation to the first service;

wherein the first service is further configured to collect information on the second set of one or more computational resources and the list further comprises a subset of the second set of the one or more computational resources.

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17. The network of claim 15 wherein the first service is configured to reserve the identified computational resource by assigning the reservation number to the identified

computational resource.

18. (Cancelled).

19. The network of claim 15 wherein matching the requirement further comprises

comparing requirements for computing the first task with specifications of computational

resources from the first and second sets.

20. The network of claim 15 wherein the second service has a stored relation to the first

service.

21. The method of claim 1 wherein the requested reservation is successful when the

identified computational resource is available to begin computing the first task.

22. The method of claim 7 wherein:

the requested reservation is successful when the identified computational

resource is available to begin computing the first task; and

the reservation number is sent to the first service by the second service.

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4. Pursuant to MPEP 606.01 the title has been changed to read: -- SYSTEM FOR MATCHING RESOURCE REQUEST THAT FREEING THE RESERVED FIRST RESOURCE AND FORWARDING THE REQUEST TO SECOND RESOURCE IF PREDETERMINED TIME PERIOD EXPIRED --

Conclusion

- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ABDULLAH AL KAWSAR whose telephone number is (571)270-3169. The examiner can normally be reached on 7:30am to 5:00pm, EST.
- 6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng Ai T. An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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7.

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Meng-Ai An/ Supervisory Patent Examiner, Art Unit 2195 /Abdullah-Al Kawsar/ Examiner, Art Unit 2195